Federal Emergency Management Agency National Urban Search & Rescue Response System



Disaster Response in the FEMA Urban Search and Rescue System



Presented to:
National Institutes of Health
School of Medicine
Distance Learning Program
November 2016



Objective

- To discuss the National US&R Response System.
- To discuss relationship between Fire Fighting, Technical Rescue, and Urban Search and Rescue
- To highlight MD-TF1 and FEMA US&R System Activities



System History

- National Urban Search & Rescue (US&R) Response System was created in response to Congressional direction after Loma Prieta earthquake in 1989
- Coordinates national capability to assist State & local governments respond to structural collapse incidents and conduct search and rescue operations
- Original solicitation
 - 25 Task Forces
 - Partnership with Sponsoring Agencies
 - Cost matching



Play Video 1









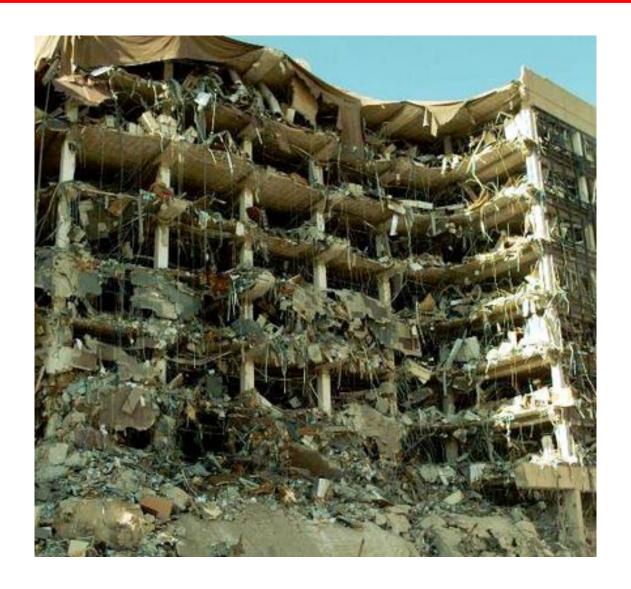




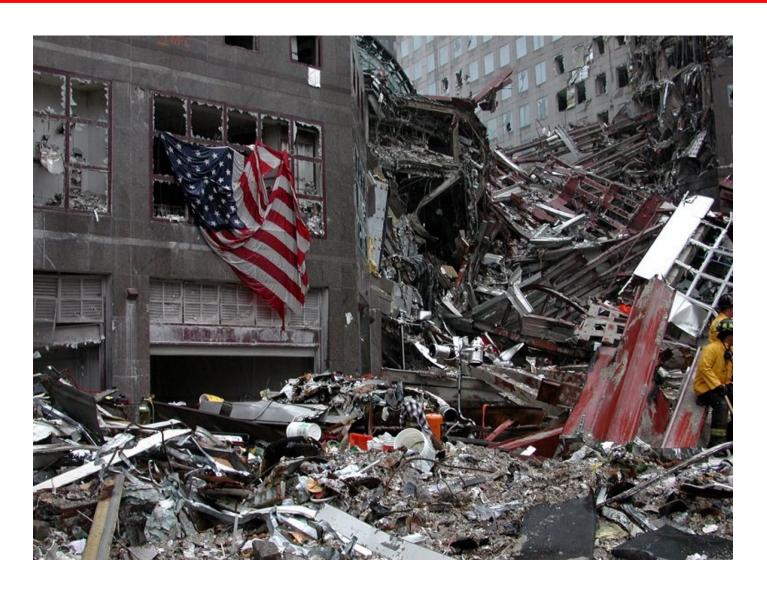


















System Deployments

- Hurricanes, Tornadoes, and Typhoon
- National Special Security Events (NSSE)
- Earthquakes
- Flooding
- Grain Elevator Explosion
- Space Shuttle Recovery
- Large Commercial Building Collapse

- Terrorists Attacks
 - Murrah Federal Building
 - Pentagon
 - WTC
- Humanitarian Mission





System Overview

- Codified in law (44 CFR Part 208)
- Nationally managed System
 - 28 US&R Task Forces
 - Seven Hazardous Materials Push Packages (HEPP)
 - Three US&R Incident Support Teams (IST)
 - Three IST Equipment Caches
 - US&R Technical Specialists
 - Support to State and Local Governments
 - Program Management
 - FEMA US&R Branch
 - Advisory Organization: Strategic Group, Advisory Group, & Advisory Support Group
 - Formal Decision Making Process



System Overview

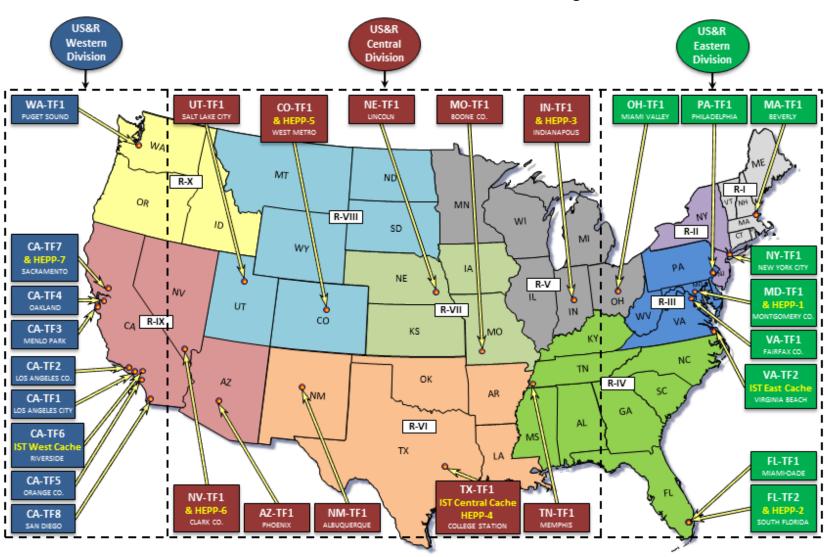
US&R Readiness & Response

- FEMA Cooperative Agreements with 28 Sponsoring Agencies
 - Primarily local Fire & Rescue Departments (Readiness Agreements)
- 6,000 System members comprised of career and volunteer first responders and civilian specialists (canine handlers, physicians, structural engineers)
- During response, System members are appointed into a Temporary Excepted Federal Volunteer employment status
- Liability issues
 - Tort Liability
 - Worker's Compensation



Task Force Locations

HEPP = Hazardous Materials Push Package



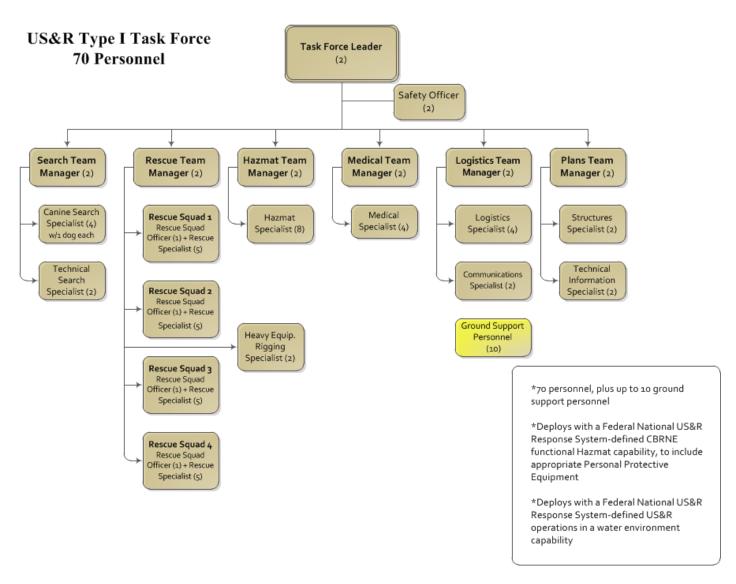


US&R Task Force Capabilities

- Type I task forces are designed to perform complex search and rescue operations:
 - Collapsed structures
 - Reinforced concrete & steel
- 24-hour around-the clock operations
- Self-sufficiency for 72 hours
- Food & water for seven days
- Assemble and deploy within four to six hour window



2014 NIMS US&R Task Force – Type I





Team Composition

Seventy person tactical unit for search and rescue operations.

- Multi disciplinary organization:
 - Search element
 - Rescue element
 - Medical element
 - Technical support element
 - WMD support element

Capable of integration into local disaster response operation as a stand alone asset or part of the local incident response.



Capabilities - Search

- Physical
- Canine
- Acoustic
- Seismic
- Video
- Fiber optic









Capabilities - Rescue

- Wood
- Steel Frame
- Unreinforced concrete
- Reinforced Concrete











Equipment Cost: \$516,000



Capabilities - Medical

- Entrapped Victims
- Task Force Members
- Team Canine
- Physicians & Paramedics
- Equipment and drugs to handle
 - 10 critical cases
 - 15 moderate cases
 - 25 minor cases







Capabilities – Technical Support

- Structural Integrity Assessment
- Hazardous Materials / WMD Assessment
- Liaison with Heavy Equipment Operators







Equipment Cost: \$260,000



Capabilities – Operations in a Contaminated Environment

- NBC Monitoring/Sampling Equipment
- Search & Recon in WMD Environment
- Rescue Operations in WMD Environment
- Decontamination









Capabilities – Communications

Phone

- Land based cellular phone
- Satellite cellular phone
- Land line phone system



Radio

- Independent portable radio communication system
- Handheld radio's
- Portable base stations
- Portable repeaters
- Aircraft radio communications
- Marine radio
 Communications



Self Sufficient - Revisit

Totally self sufficient for the first 72 hours of operations includes:

- Food
- Water
- Shelter
- Fuel
- Equipment
- Equipment maintenance & support
- Full equipment cache to support the task force's operations

Logistics Equipment Cost: \$2,476,000





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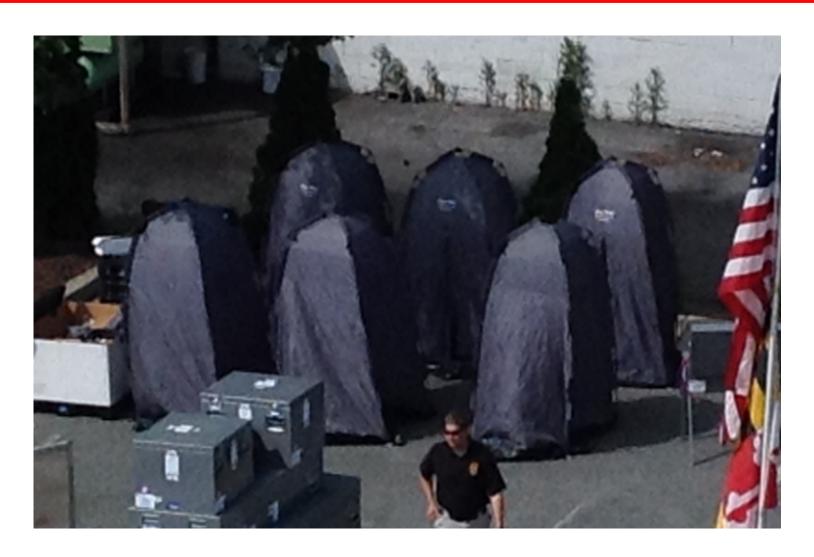
















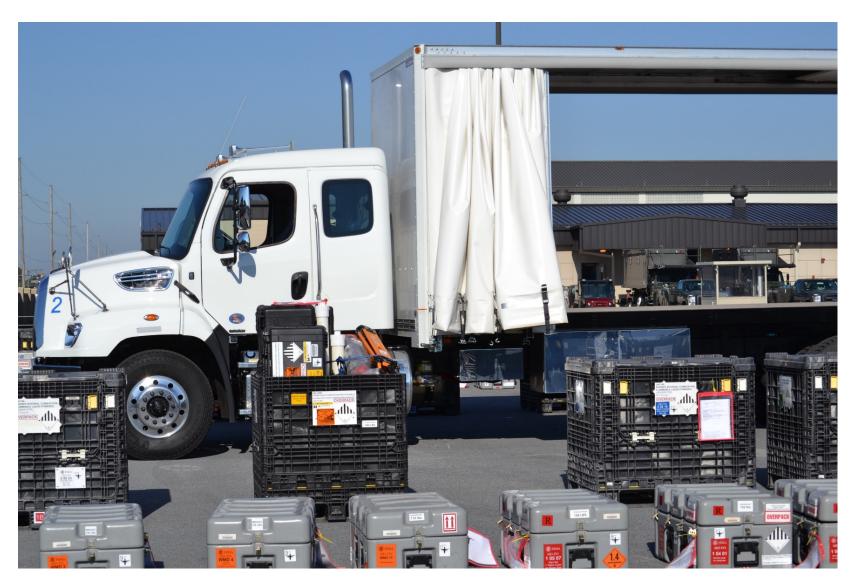


How Do We Get Our Equipment on Location?













National Urban Search & Rescue Response System





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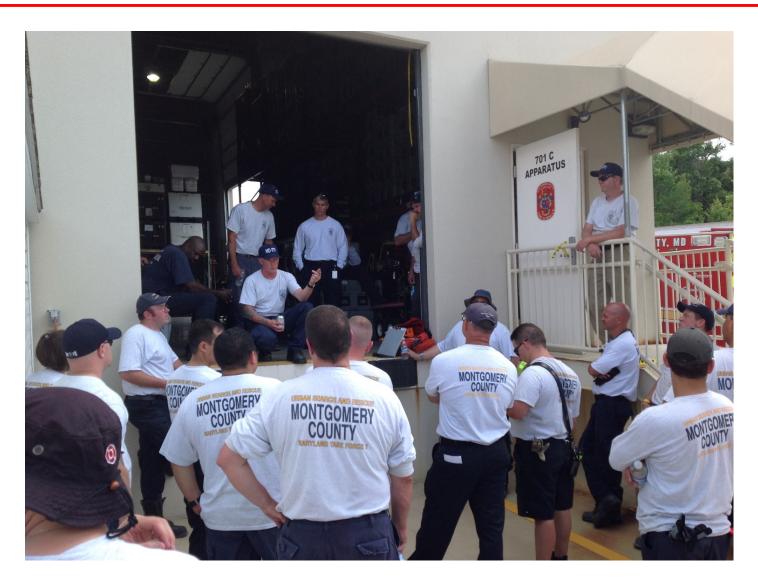






How Do We Stay Sharp?

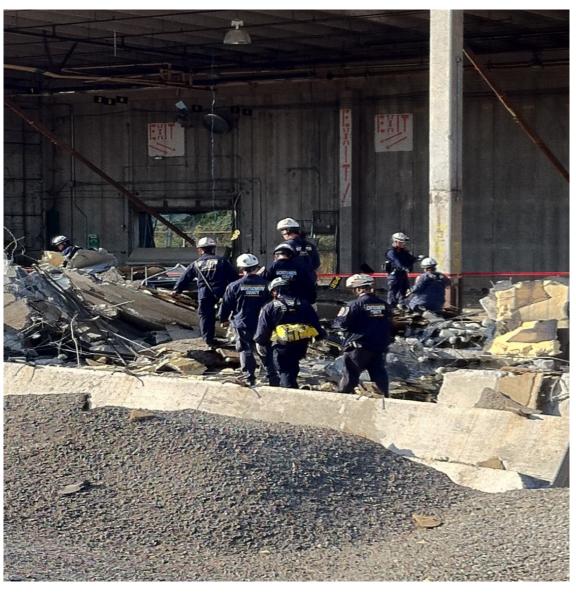






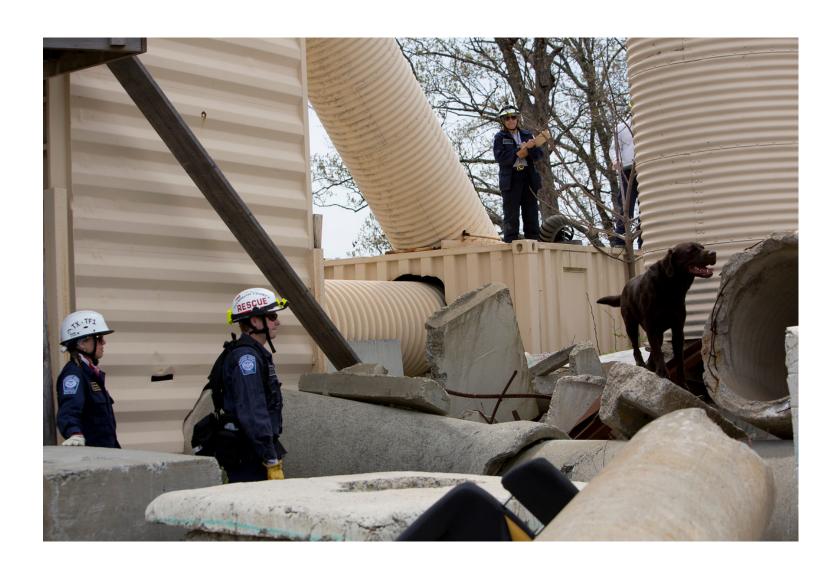




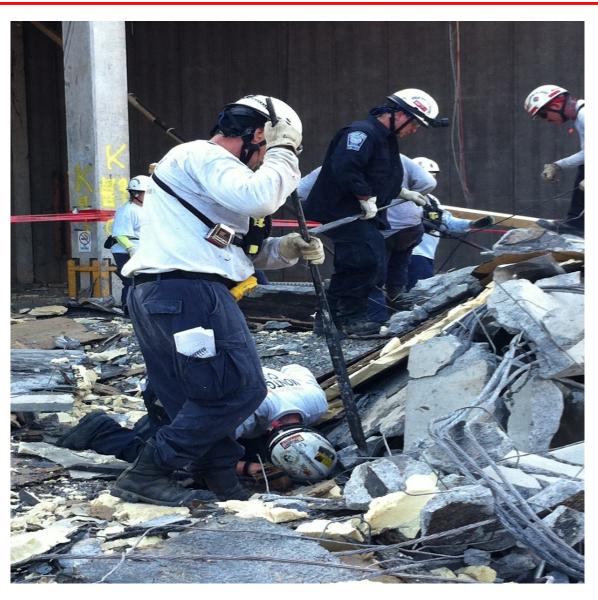


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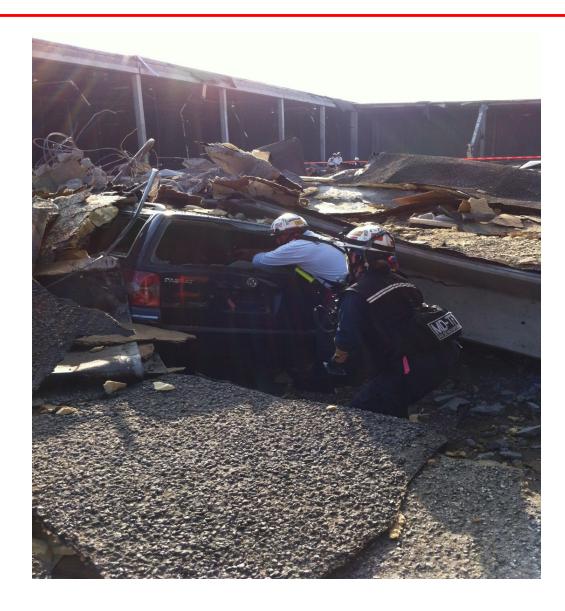






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Questions?



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